

**MECHANICAL METAPHOR FOR REPRESENTING PARAMETER
CONSTRAINTS GRAPHICALLY FOR MEDICAL DEVICES**

ABSTRACT OF THE INVENTION

A system for representing parameter constraints that govern the values of interrelated parameters includes displays corresponding to a plurality of parameters having a range of values represented by a dimension in the displays. The interrelationship of the parameter constraints is maintained, when one or more of the displays change in value, by means of a software system to make an automatic adjustment while recognizing and maintaining the relationship between the parameters. The system is adjustable on a dynamic basis such that when a user adjusts the parameter either upwards or downwards the remaining interrelated parameters are simultaneously shifted to maintain constraints of the relationships consistent with prior condition before the change.

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